

PATENT ABSTRACTS OF JAPAN

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(54) PIPELINE PROCESSING SYSTEM

(57)Abstract:

PURPOSE: To completely resolve hazards due to causal relations of a continuous instruction string to improve the processing speed of a processor by using processing circumstances, where plural processes waiting for execution exist, to switch the process in the machine instruction level.

CONSTITUTION: In a conventional pipeline, the execution of a preceding instruction may have an influence upon the execution of a following instruction to invalidate this execution because an instruction string belonging to the same process is continuously executed in parallel, and the efficiency of the pipeline system is reduced thereby. In this invented system, instructions belonging to different processes are successively switched and put in the pipeline and are executed in parallel to prevent instructions belonging to the same process from simultaneously existing in the pipeline. Thus, hazards due to causal relations of the continuous instruction string are completely resolved.

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